TITLE:

Brief Results of Studying the Connection of Surface Electronic States of Semiconductors with Catalytic Phenomena (Kratkiye itogi izucheniya svyazi poverkhnostnykh electronnykh sostoyaniy poluprovodnika s kataliticheskimi yavleniyami)

temperature changes of cupric oxide were studied in the atmospheres of 0, CO and CO<sub>2</sub>. It turned out that at temperatures from 20 to 150°C, the contact potential value remained constant in a vacuum, increased with adsorption of oxygen or carbon monoxide, but remained almost constant when heating the cupric oxide within these temperatures. When the mixture of oxygen and carbon monoxide was used, the contact potential value sharply decreased at the instant that catalytic reaction sets in as Graph 1 shows.

Elec conductivity was measured simultaneously. In a vacuum and in the oxygen or carbon monoxide atmospheres, the functional dependence  $\lg G(I/T)$  was represented by a straight line ( $\Im$  denotes elec conductivity). In the case of an oxygen and carbon monoxide mixture, the straight

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TITLE:

Brief Results of Studying the Connection of Surface Electronic States of Semiconductors with Catalytic Phenomena (Kratkiye itogi izucheniya svyazi poverkhnostnykh electronnykh sostoyaniy poluprovodnika s kataliticheskimi yavleniyami)

line was broken, and the break point corresponded with the temperature at which a sharp contact potential change and generation of catalytic reaction products were observed.

Experiments showed that similar results were obtained when cupric oxide was replaced with nickel oxide. These experiments have shown that the course of contact potential temperature changes is determined by the process of catalytic reaction, and not by semiconductor properties.

A possible interpretation of these experiments, proposed by the authors is the following: oxygen is adsorbed on surface levels occupied by electrons. A surface level electron is sucked into an oxygen molecule, and the contact potential value therefore rises.

Card 3/5

TITLE:

Brief Results of Studying the Connection of Surface Electronic States of Semiconductors with Catalytic Phenomena (Kratkiye itogi izucheniya svyazi poverkhnostnykh electronnykh sostoyaniy poluprovodnika s kataliticheskimi yavleniyami)

The catalytic activity of a semiconductor depends on the number of electrons and holes on its surface levels. This connection was confirmed experimentally with manganese dioxide samples, which were heated at various temperatures from 200 to 300  $^{\circ}\mathrm{C}$  in a vacuum. This produced samples with different values of conductivity and contact potential. Fig 3 shows that the samples with larger changes in contact potential at gas adsorption also possessed higher rates of catalytic reaction. Therefore, there is a close connection between the rate of a catalytic reaction and the change in filling the surface levels. In this respect, the qualitative aspect is stated but the quantitative is not attempted. A reaction of nitrogen oxide dissociation on nickel oxide as a catalyzer was also investigated. In all cases, the minimum in the contact potential curve and the existence of N<sub>2</sub>O dissociation products were

Card 4/5

TITLE:

Brief Results of Studying the Connection of Surface Electronic States of Semiconductors with Catalytic Phenomena (Kratkiye itogi izucheniya svyazi poverkhnostnykh electronnykh sostoyaniy polu-

provodnika s kataliticheskimi yavleniyami)

observed at a temperature of aprx. 100°C. The general conclusion from all these experiments is as follows: There exists a close relation between the changes of contact potential and surface electronic states of semiconductors, on the one hand, and catalytic reactions on the semiconductor surface, on the other hand. The relation exists in both oxidation and dissociation

reactions.

4 graphs are added. The article contains 9 references,

of which 4 are Slavic (Russian).

INSTITUTION:

Institute of Physics of the Ukrainian Academy of Sciences

PRESENTED BY:

SUBMITTED:

No date

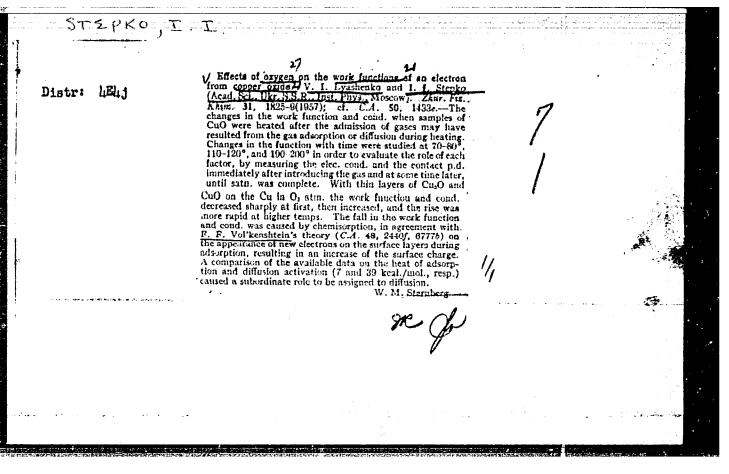
AVAILABLE:

At the Library of Congress.

Card 5/5

## "APPROVED FOR RELEASE: 08/26/2000

#### CIA-RDP86-00513R001653220018-3



ROMANOVA, G.P. [Romanova, H.P.]; STEPKO, I.I.

Electronic phenomena on the surface of germanium during adsorption and catalysis. Dop. AN URSR no.6:585-586 '58. (MIRA 11:9)

1. Institut fiziki AN USSR. Predstavil akademik AN USSR V. Ye. Lashkarev [V. IE. Lashkar'ov] (Germanium)

```
STEPKO, I.I.; ROMANOVA, G.F. [Romanova, H.P.]; CHMEL', N.G. [Chmel', M.H.]

Effect of thermal treatment on the liberation of gas from the surface of germanium. Urk. fiz. zhur. 5 no. 5:705-707 S-0 '60.

(MIRA 14:4)

1. Institut fiziki AN USSR.

(Germanium)
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APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220018-3"

LYASHENKO, V.I.; ROMANOVA, G.F.; STEPKO, I.I.

Contact potential of the surface of germanium in adsorption and catalysis. Probl. kin. i kat. 10:111-116 '60. (MIRA 14:5)

1. Institut fiziki AN USSR. (Germanium) (Catalysis) (Adsorption)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220018-3"

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L 17923-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD/JG ACCESSION NR: AT 300 2443 S/29 35/62/000/000/0085/00 92

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AUTHOR: Romanova, F. G.; Stepko, I. I.

HENZHOUNGEREN FERNINGEN FERNINGEN DE SENTEN DE SENTEN DE SENTEN DE SEN

TITLE: Silicon surface gassing [Report at the Conference on Surface Properties of Semiconductors, Institute of Electrochemistry, AN SSSR, Moscow, 5-6 June 1961]

SOURCE: Poverkhnostny\*ye svoystva poluprovodnikov. Moscow, Izd-vo AN SSSR, 1962, 85-92

TOPIC TAGS: silicon, silicon-surface gassing, silicon etching

ABSTRACT: An attempt is described to determine the quantity and composition of gases adsorbed by Si single crystals as a result of etching. Specimens of p-Si with a 50-ohms.cm resistivity were etched for 1 min in 2HF:  $3\text{HN}0_3$  mixture. By heating the specimen to 600-800C and higher, the gases were desorbed; their quantity and mass spectrum were determined. The gases consisted chiefly of H<sub>2</sub>O and CO; traces of N<sub>2</sub>, H<sub>2</sub>, and CO<sub>2</sub> were also found but they could have been due to the presence of incandescent tungsten filaments, glass, etc. in the vacuum vessel. "We are sincerely thankful to V. I. Lyashenko for his/her constant interest in the work and discussing the results." Orig. art. has: 8 figures.

Card 1/2

L 17923-63

ACCESSION NR: AT3002443

ASSOCIATION: Institut poluprovodnikov AN UkrSSR (Institute of Semiconductors

AN UkrSSR)

SUBMITTED: 00

DATE ACQ: 15May 63

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 004

Cord 2/2

LYASHENKO, V.I. [Liashenko, V.I.]; SERBA, A.A. [Serba, O.A.]; STEPKO, I.I.

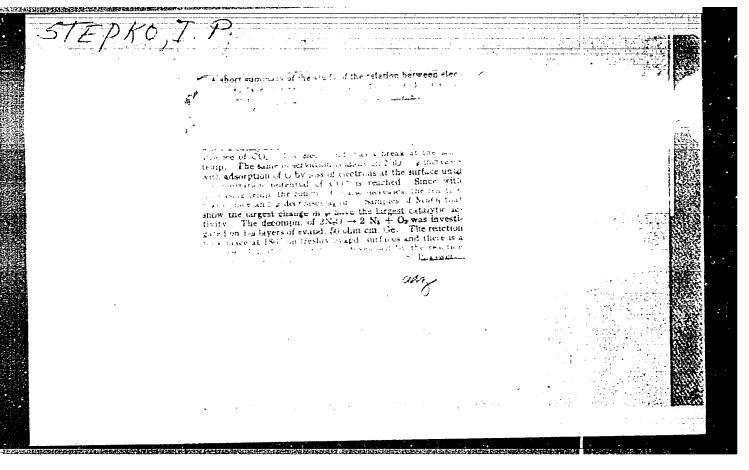
在分词,但是是一个人的人,我们就是一个人的人,我们就是一个人的人的人,我们就是一个人的人的人,我们就是一个人的人的人的人,我们就是一个人的人的人的人,我们就是一个人的人

Effect of an electric field on sorption processes on a germanium surface. Dop. AN URSR no.3:350-353 '62. (MIRA 15:5)

1. Institut poluprovodnikov AN USSR. Predstavleno akademikom AN USSR V.Ye.Lashkarevym [Lashkar\*ov, V.IE.].

(Desorption) (Germanium) (Electric fields)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220018-3"



STEPKO, V.I.

Effect of heat on the summation of stimulations in the center of the flexion reflex. Fiziol.zhur. [Ukr.] 11 no.4:526-529 J1-Ag '65. (MIRA 18:10)

l. Kafedra normal'noy fiziologii Donetskogo meditsinskogo instituta.

#### CIA-RDP86-00513R001653220018-3 "APPROVED FOR RELEASE: 08/26/2000 的一种主题性,在全国的主题,是一个企业的主题,是一个企业的主题,但是一个企业的主题,但是一个企业的主题的主题,但是一个企业的主题的主题,但是一个企业的主题,但是

S/085/60/000/03/045/062 D001/D003

Stepko, Yu. (Sochi) AUTHOR:

A Relayless Single-Command Radio-Receiver for Model TITLE:

Aircraft

Kryl'ya rodiny, 1960, Nr 3, p 27 (USSR) PERIODICAL:

The receiver which the author describes was success-ABSTRACT:

fully tested at the aviamodel nyy kruzhok Doma pionerov (Aeromodelling Circle at the House of Pioneers) in Sochi and proved to have advantages over a similar model powered by a single KBS-0.5 baby battery. The subject of the present article is shown by a circuit diagram (Figure 2), and its components include a 2PlP tube, an NCh amplifier, PEL 0.7, PEL 0.05 - 0.06 and PEShO 0.15 wire, a VS-0.53 resistance and an RUM-1 very other transmitter.

or other transmitter. There are 2 sets of circuit dia-

grams and 1 circuit diagram.

Card 1/1

Accumulation of probhydrate. In the tubers of Helianthus tuberosus L. during the vegetative development of the plant. Blokhimita 26 no.4:569-574 Jl-4g '61. (MIRA 15:6)

!. haboratoriya organicheskey khimii Səl'skokhozyayatvennogo instituta, Ul'yanovek. (GARSOREERITE) (JERUSAUTH AUTOURE)

BARTOSZEWSKI, Adam; STEPKOWSKA, Irena; KLOHOWSKI, Henryk

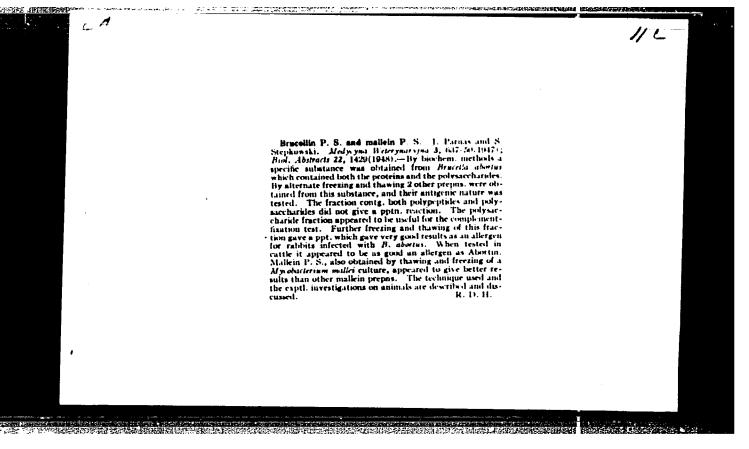
Trichomycin in the treatment of Trichomonas infections in humans. Polski tygod.lek. 14 no.51:2236-2239 21 Dec. '59.

STEPHOLEXI, J.

New projects of dwellings for statefarms workers.

P. 9, (Fudwoietwo Weiskei, Vol. 9, no. 10, Oct. 1956, Warszawa, Poland)

Monthly Index of East European Accessions (F AI) L2. vol. 7, no. 2, February 1958



PARNAS; KUNICKI, W.; STEPKOWSKI, S.

Investigations on colibacillosis in pigs. Med.dosw.Mikrob. 2 no.2: 235-236 1950. (CLML 20:6)

www.

1. Summary of the report given at 10th Congress of the Polish Microbiological and Epidemiological Society held in Gdansk, Sept. 1949. (Lublin),

PARNAS, J.; KUNICKI, W.; STEPKOWSKI, S.

Investigations on strains of Corynebacterium isolated in animals. Med.dosw.Mikrob. 2 no.2:236-238 1950. (CIML 20:6)

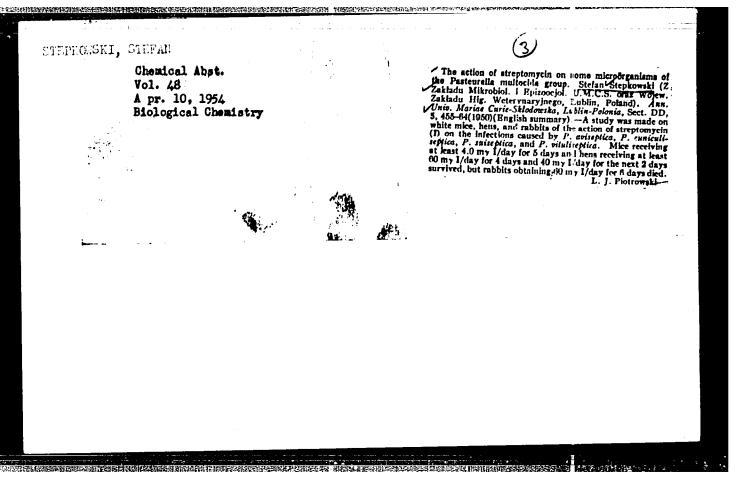
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1. Summary of the report given at 10th Congress of the Polish Mi-crobiological and Epidemiological Society held in Gdansk, Sept.1949. (Lublin).

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#### "APPROVED FOR RELEASE: 08/26/2000

#### CIA-RDP86-00513R001653220018-3



PARNAS, J.; KUNICKI-GOLDFINGER, W1.; STEPKOWSKI, S.; LORKIEWICZ, Z.; DABRAWSKI, T.

。""你会会们到现代的时间,我们就是这种的时候,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,这个人的人, "我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人

Research on hemolytic Bacteria coli isolated from hogs. Med.wet.6 no.12:717-721 Dec 50. (CIML 20:6)

1. Of the Institute of Microbiology and Apisoology of the Veterinary Faculty of Marie Curie-Sklodowska University in Lublin and of the Regional Institute of Veterinary Hygiene in Lublin (Head--Prof.Jozef Parnas).

PARNAS, J.; KUNICKI, W.; STEPKOWSKI, S.; LORKIEWICZ, Z.; DABROWSKI, T.

Attempt of typing of strains of enteric bacteria with bacterio-phages. Med. dosw. mikrob., Warsz. 4 no. 3:332-333 1952. (CIML 23:3)

1. Summary of work progress presented at 11th Congress of Polish Microbiologists held in Krakow May 1951. 2. Jublin.

PARNAS, J.; STEPKOWSKI, S.; DABROWSKI, T.; PIENIAZEK, J.

BHISEBRING AND SERVICE BRANCHES IN A CHARLES IN SERVICE SERVIC

Studies on Listerella and Corynebacterium in animals. Med. doew. mikrob., Warss. 4 no. 3:334-336 1952. (CLML 23:3)

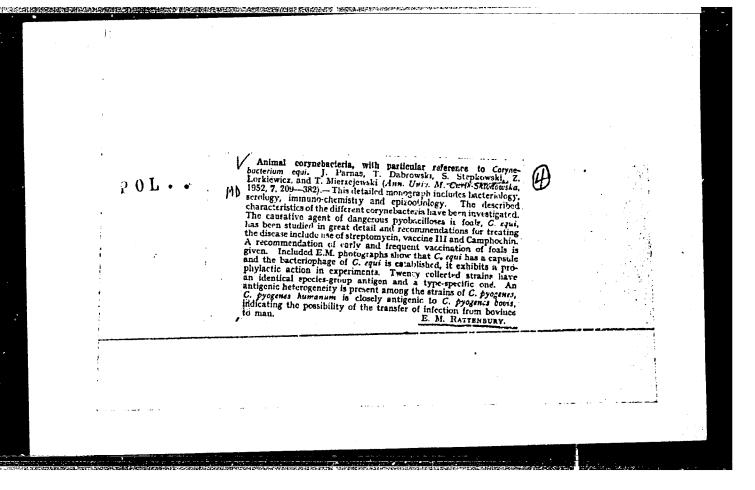
1. Summary of work progress presented at 11th Congress of Polish Microbiologists held in Krakow May 1951. 2. Jublin.

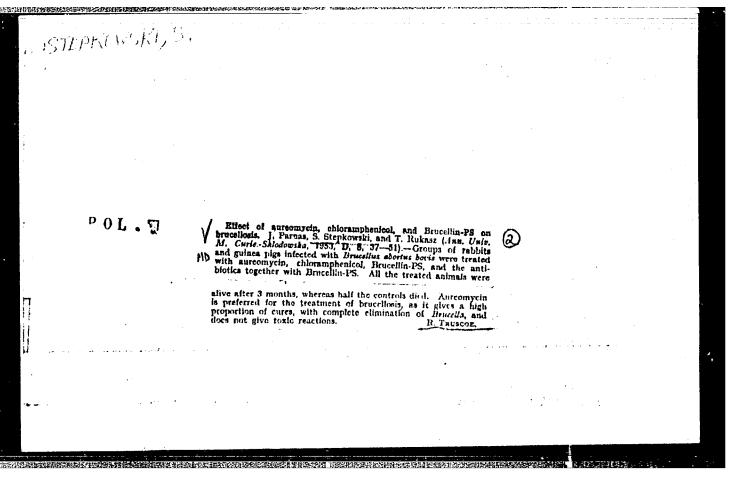
PARNAS, J.; STEPKOWSKI, S.; DABROWSKI, T.; LORKIEWICZ, Z.

Effect of streptomycin, aureomycin and chloramphenicol on microorganisms in animals. Med. dosw. mikrob., Warss. 4 no. 3:337-338 1952. (CIML 23:3)

1. Summary of work progress presented at 11th Congress of Polish Microbiologists held in Krakow May 1951. 2. Iublin.

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STEPHOUSKI, 3.

RELEED

"Bradsot in Sheep in the Flock "J" of the State Agricultural Farm "3", by 3. STMPKCMSKI and S. MOLOSZYN. Research conducted at Chair of Epizobtiology, Veterinary Faculty, Higher School of Agriculture, Lublin. Dir. - Prof. Dr. Stanislaw Krauss. Medecyna Meterynaryjna, Vol. XII, No. 3, Warsaw, PARIL, March, 1956.

的名词复数的一种,我们就是一个人,我们就是这种的,我们就是这个人,我们就是这个人,我们就是这一个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个

KRAUSS, St.; STEPKOWSKI, S. (Lublin)

Preliminary observations of the opsonocytophagic test and the formol-

gel test of Ciuka in equine infectious anemia. Rocz nauk rolm wet 70 no.1/4:197-199 '60. (KEAI 10:9)

(Horses) (Infectious anemia) (Opsonins and opsonic index) (Cytophaga) (Formaldehyde)

STEPKOWSKI, Stefan ---

Studies on the properties of trichomonads in swine and cattle. Wiadomosci parazyt. 7 no.2:359-361 161.

1. Katedra Epizocjologii Wydz. Wet., Lublin.

(TRICHOMONAS INFECTIONS veterinary)
(SWINE parasitol) (CATTLE parasitol)

. STEPKOWSKI, S.

The technic of the tube agglutination test with animal trichomonads. Wiadmosci parazyt. 7 no.2:363-364 <sup>1</sup>61.

1. Katedra Epizocjologii Wydz. Wet., Lublin.

(TRICHOMONAS immuno1)

- STEPKOWSKI, Stefan

1. Katedra Epizoocjologii Wydz. Wet., Lublin.

(TRICHOMONAS INFECTIONS immunol) (PHAGOCYTOSIS)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220018-3"

POLAND

STEPKOWSKI, Stefan; and RZEDZICKI, Janusz, Department of Poultry Diseases of the Veterinary College of the Agricultural University, Lublin (Zaklad Chorob Drobiu Wydzialu Weterynarii WSR) Head (Kierownik) Docent Dr. Stefan STEPKOWSKI

"Observations on the Action of Furazol  $\mathcal H$  in Intestinal Coccidiosis in Chickens"

Lublin, Medycyna Weterynaryjna, Vol 22, No 11, Nov 66; p. 681-682

Abstract [English summary modified]: Treatment of intestinal coccidiosis in chicks with nitrofurazon was more effective when the water soluble preparation Furazol W was added to the drinking water than when Furacoccid was admixed with the feed. However, availability of any drinking water other than the medicated one (such as rain puddles and dew) would decrease the effectiveness of treatment. 2 tables; 1 Czech, 4 Polish, 4 Western references.

1/1

Z/011/62/019/001/004/017 E073/E136

Ciborowski, J., and Steplewski, B. AUTHORS :

On the influence of particle size on the speed of TITLE:

infrared drying

PERIODICAL: Chemie a chemická technologie. Přehled technické a

hospodářské literatury, v.19, no.1, 1962, 22, abstract Ch 62-300. (Chem. stos., v.5, no.1 1961,

3-16).

Card 1/1

The influence of the size of sand particles on the speed of drying with infrared rays was investigated. The particle TEXT! diameters varied between 0.102 and 2.5 mm. The first as well as the second drying period was studied. The existence was proved of an optimum diameter of solid particles which corresponded to the maximum speed of drying. The dependence was determined of the absorption capacity of the sand layer on the size of the particles during heating. A similar relation was found to exist for the heat-transfer coefficient. 9 figures, 1 table, 9 references. [Abstractor s note; Complete translation.]

STEPLEWSKI, Bohdan; TUSTYNSKI, Kazimierz

Rectification as an object of regulation. Przem chem 40 nc.8:419-421 Ag '61.

# STEPIEWSKI, Bohdan

Static quality of the automatic control of bicomponent mixture rectification. Przem chem 41 no.3:117-121 Mr 162.

1. Badawczo-Doswiadczalny Osrodek Automatyzacji "Chemopomiar", Warszawa.

VORBRODT, Andrzej; JONEK, Jan; STEPLEWSKI, Zenon

经产品分类的工作的证明的工程,并不是一个企业,不是一个企业,不是一个企业,不是一个企业,不是一个企业,不是一个企业,不是一个企业,不是一个企业,不是一个企业,

Histochemical studies on the effect of estrogens on the uterus and vagina of castrated mice. I. Distribution of DPMH diaphorase and succinic dehydrogenase. Endokr. pol. 14 no.1:57-68 '63.

1. Zaklad Histologii i Embriologii Sl. AM w Zabrzu-Rokitnicy Kierownik: doc. dr A. Vorbrodt. (UTERUS) (VAGINA) (EXTROGENS) (PHARMACOLOGY) (SUCCINATE DEHYDEROGENASE)

BFRKA, Mieczyslaw; STEPLEWSKI, Bohdan; DRAMINSKA, Krystyna

经分类实践的主义,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人的人,我们就是一个人的人的人的人,只是一个人的人的人,我们们就是一个人的人,我们们

Studies on the rectification process as a control object. Przem chem 42 no.1:41-45 Ja '63.

1. Badawczo-Doswiadczalny Osrodek, Pracownia Pomiarow i Automatyki Chemopomiar, i Instytut Chemii Ogolnej, Warszawa.

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(2) 到到这些大**位的时间的**被使<mark>的时间的时间的自己的</mark>主要,但是是一个人,但是是一个人,但是是一个人,但是是一个人,但是是一个人,

2. STEPLEWSKI and Z. OLKOWSKI, Department of Histology and Embryology, MAJICAL College (Zaklad Histologii 1 Embriologii, Al L-Alademia Badycznej), Zabrze-Rokirnica.

"Cytochemical Studies on the Interrelation Between Lysosches and the Ocigi Bone in the Uterine Epithelium."

Sciences Biologiques, Vol 10, No 11, 1962; pp 495-497.

abstrace (English article): Study on 20 spayed estraction-primed mine. Discussion of the role of Golg! appearants in the production of the lyst nomes. Twelve microphotographs. 6 references.

in to

KOZUBSKA, Mieczyslawa; STEPLEWSKI, Zenon

Histochemical studies on the effect of cortisone on the early stages of liver regeneration in rats. Endokr. pol. 14 no.1: 19-35 163.

1. Zaklad Histologii i Embriologii Ogolnej w Zabrzu-Rokitnicy Kierownik: doc. dr A. Vorbrodt. (CORTISONE) (PHARMACOLOGY) (LIVER REGENERATION) (HISTOCHEMISTRY)

JONEK, Jan; STEPLEWSKI, Zenon

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Histochemical studies on the effect of estrogens on the adrenals of castrated mice. Endokr. pol. 14 no.4:371-387 '63.

GLOWINSKI, Mieczyslaw; STEPLEWSKI, Zenon

是我们的现在是**的现在分词,我们就是这种的人,我们就是这个人,我们**是是我们的人,我们就是这个人,我们就是这个人,我们就是这个人,我们也不是这个人,这个人,这个人

Histochemical studies on the localization of phosphatase activity in the decidua. Ginek. pol. 34 no.4:453-461 '63.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych Sl. AM w Zabrzu Kierownik: prof. dr med. M. Glowinski. (DECIDUA) (PHOSPHATASES) (HISTOCHEMISTRY)

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JONEK, Jan; STEPLEWSKI, Zenon

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Histochemical studies on the effect of estrogens on the uterus and vagina of castrated mice. II. Distribution of specific and non-specific phosphatases, non-specific esterase and E 600-resistant esterase and acid desoxyribonuclease in the vagina. Endokr. pol. 14 no.3:247-260 103.

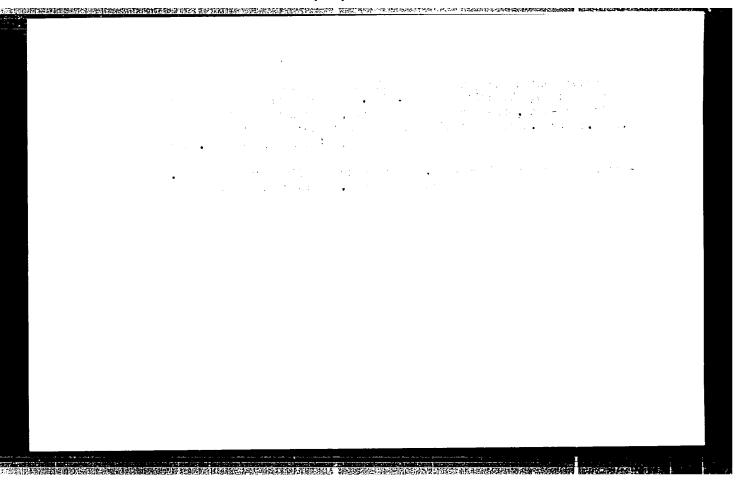
1. Zaklad Histologii i Embriologii Sl. AM w Zabrzu-Rokitnicy Kierownik: doc. dr A. Vorbrodt. (VAGINA) (ESTRADIOL) (PHARMACOLOGY) (HISTOCHEMISTRY) (PHOSPHATASES) (ESTERASES) (DESOXYRIBONUCLEASE) (PARATHION)

JCHEK, Jan; DTEM LEMBEL, Venon; (AMADIENTE), Laigorzata

Pistochemical studies on the offset of entropens on the Merus and
varina of castratel mice. V. Distribution of -SH and -SS protein

groups, mucepolysacearides and glycogen and on the metachmomatic reaction of the uterus. Endokr. Pol. 15 no.2:213-225 Nr-Ap 164.

1. Taklad Histologii i Emeriologii Slaskiej Akademii Medyemnej w Zabrzu-Rokitniey (Kierownik: doc. dr. A. Vorbredt).



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GLOWINSKI, Mieczyslaw; STEPLEMSKI, Zenon; WARGLSKI, Wlodzimierz

A study of the reticuloendothelial system (RES) in experimental toxoplasmosis. Wiad. parazyt, 10 no.4:367 164

1. I Klinika Poloznictwa i Chorob Kobiecych Slaskiej Akademii Medycznej, Zabrze.

VORBROTH, A.; STEPLEWSEL, Z.; POINTERCZYK, Z.

Cytochemical investigations on the localization of exidative

Cytochemical investigations on the localization of chidative enzymes in isolated nuclei of the rat liver. Folia histochem. cytochem. (Krakow) 3 no.2:137-142 165.

1. Department of Tumour Biology, Institute of Oncology, Gliwice.

THE THE PERSON OF THE PERSON O

ZIAREK, Stantelaw; STEPLEWSKI, Z.

Function of the reticulcendothelial system of the liver in experimental traumatic shock. Med. pracy 16 no.4:283-287 '55.

1. Z I Kliniki Chirurgicznej Slaskiej AM w Zabrzu (Kierownik: prof. dr. med. S. Szyszko) i z Zakladu Histologii Slaskiej AM w Zabrzu (Kierownik: doc. dr. med. A. Vorbrodt).

KUBACKI, Tozef; STERIEWSKI, Renon; But HANSKI, homan; KUBACKI, Andrzej

Effect of thyroxin on the morphology and catecholamine content of the adrenal medulla. Pol. arch. med. wewnet. 35 no.4:491-496 165.

1. Z I Kliniki Chorob Wewnetrznych Slaskiej AM (Kierownik: prof. dr. med. J. Japa) i z Zakladu Biologii Nowotworow Instytutu Onkologii w Gliwicach (Kierownik: doc. dr. med. M. Chorazy).

公司,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人, 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

KRAUSE, Mieczyslaw; STEPLEWSKI, Zygmunt

On fatigue in the myoneural synapse. Acta physiol pol 12 no.3: 381-387 '61.

1. Z Zakladu Fizjologii Slaskiej A.M. w Zabrzu-Rokitnicy p.o. kierownika: dr M. Krause.
(MYONEURAL JUNCTION) (FATIGUE)

STEPLOVA, Dagmar, inz.

Education of glassmakers. Sklar a keramik 14 no.4:105-106 Ap '64.

1. Ministry of Education and Culture, Prague.

STEPLOVA, Dagmar, inz.

Acceptance of students at technical high schools. Sklar a keramik 15 no.2:3 of cover F 165.

1. Ministry of Education and Culture, Prague.

KOLPAKOVA, T.A.; GOLIYENBIYEVSKAYA, Z.I.; SHEVTSOVA, N.I.; RYBINA, M.I.; NIKITINA, N.N.; RYBAKOVA, L.F.; SHIPSHINA, N.D.; KORN, A.N.; KO-ROVKIN, B.F.; KOSYAKOV, K.S.; STEPNAYA, A.A.

Suggestions made at the September 29, 1963, conference of "Laboratornoe delo" readers, members of the Leningrad Society of Physicians and Laboratorians. Lab. delo 10 no.4:256 '64. (MIRA 17:5)

1. Predsedatel pravleniya Leningradskogo obshchestva vrachey-laborantov (for Kolpakova). 2. Chleny pravleniya Leningradskogo obshchestva vrachey-laborantov (for all except Kolpakova).

into an eye ring, and an auxiliary canopy placed inside the main canopy (see Fig. 1). To increase reliability and improve operational qualities, the auxiliary canopy in the form of a reversed cone is fastened to the main canopy's internal shroud lines, which are brought into a small eye ring connected to the main eye ring by a central strand. Orig. art. has: 1 figure.				
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SUJAK, I.; GASIOR, S.; STEPNEWSKI, W.

公司是全国的情况是这种的,他们们也是这种的,我们也是这种的,我们是是他的,我们是是他的,我们就是这个人的,我们就是这个人的。""我们就是这个人的,我们就是这个人

On the effect of an external electric field on the emission of electrons from additively colored KCI into a gaseous atmosphere. Pt.1. Acta physica Pol. 24 no.1:51-63 J1.63.

1. Institute of Experimental Physics, University, Wroclaw (for Sujak). 2. Chair of Physics, Medical Arademy, Wroclaw (for Gasior and Stepniewski).

STEPNIAK, Henryk, mgr inz.

Conference of the photochemical industry in Warsaw. Chemik 15 no.4:142-144 Ap '62.

1. Ministerstwo Przemyslu Chemicznego, Warszawa.

STEPNIAK, Henryk, mgr inz.

Introduction of nuclear techniques. Chemik 16 no.2:52-55 7 163.

1. Ministerstwo Przemyslu Chemicznego, Warszawa.

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STEPHIAK, Henryk, inz.

Thirteenth General Convention of the Association of Engineers and Technicians of the Chemical Industry. Chemik 16 no.3:93 Mr \*163.

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STEPHIAK, Henryk, inz.

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Ap '63.

STEPHIAK, Henryk, inz.

Importance of plastics. Chemik 16 no.7/E:217-219 J1-kg '63.

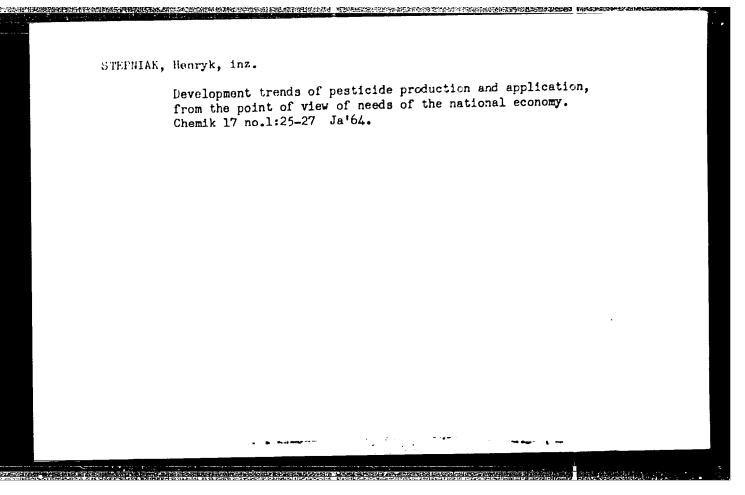
WITKONSEA, Joanna, mgr; STEPRIAE, Henryk, inm.

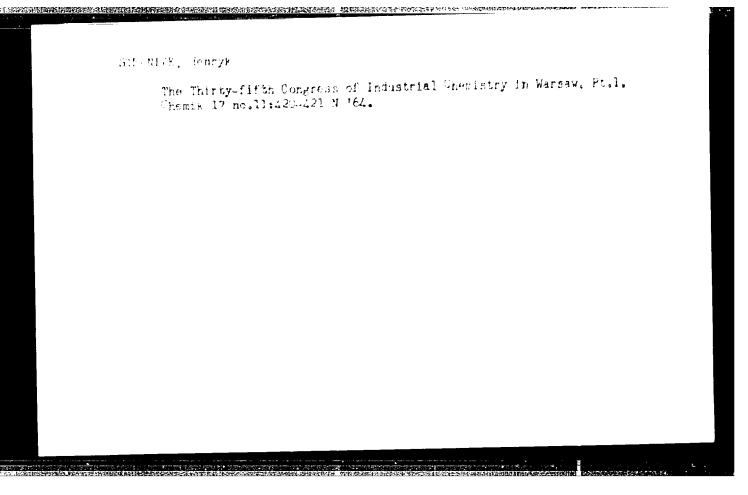
Color and its application. Chemik 16 no.7/2:230-231 J1-Ag '63.

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STEPNIAK, Henryk, mgr inz.

We are realizing the directives of party and administration in research works. Chemik 16 no.12:376-377 D.63.





STEPNIAK, Henryk, inz.

Labor conditions connected with the chemicalization of agriculture. Chemik 18 no.2:63-64 F '65.

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#### STEPHIAK, J.

Rosults of the study of the demand in the General Consumers' Cooperative establishments of Grumberg. p. 14. (PRZEMYSL GASTRONOMICZNY. Vol. 11, no. 6, June 1996, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957. Uncl.

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Application of ensymatic case in hyrolysates and of yeast extracts in diagnostic culture media for cultivation of Neisseria gonorrhoeae. Przegl. derm., Warss. 1 no.2:147-150 Sept 1951. (CIML 23:2)

1. Of the State Institute of Dermatology and Venereology (Director--Prof. J. Suchanek, M.D.) in Warsaw.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220018-3"

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SAPER, Jerzy; STEPNIAK, Roman

A REPORT THE PROPERTY OF STREET PROPERTY OF STREET STREET, STR

Successful largactil therapy of a case of erythromegalia. Przegl. derm., Warsz. 6 no.5:435-438 Sept-Oct 56.

1. Z Kliniki Neurologicznej A.M. w Warszawie wz. Dyrektora:
prof. dr. I. Hausmanowa. Z Instytutu Dermatologii i Wenerologii
p. o. Dyrektora: doc. dr. T. Stepniewski. Kierownik Dzialu
Dermatologii: prof. dr. E. Bruner, Warszawa, Klinika Neurologiczna
Akademii Medycznej, Oczki 6.

(ERYTHROMEGALIA, therapy,
chlorpromazine (Pol))

(CHLORPROMAZINE, therapeutic use,
erythromegalia (Pol))

DZULYNSKA, Janina, GAJZLER, Regina, STEPNIAK, Roman

Phosphatides in blood protein farctions of patients with late syphilis. Przegl.derm., Warsz. 8 no.1:1-17 Jan-Feb 58.

1. Z Instytutu Dermatologii i Wenerologii wz. Dyrektora: doc. dr T. Stepniwski Kierownik Dzialu Klinicznego Wenerologii: doc. dr J. Towpik Kierownik Sekcji Biochemicznej: doc. mgr. J. Dzulynska. Adres: Warszawa, Instytut Dermatologii i Wenerologii, Koszykowa 82a. (SYPHILIS, blood in

phosphatide determ. in blood protein fractions (Pol)) (BLOOD PROTEINS, in various dis.

late syphilis, phosphatide determ. (Pol)) (PHOSPHOLIPIDS, in blood.

in protein fractions in late syphilis (Pol))

STEPNIAK, Roman

Causes of the appearance of clinical resistance in previously used methods in the treatment of gonorrhea. Przegl. derm. 48 no.8/10: 331-336 '61.

1. Z Kliniki Dermatologicznej A.M. w Warszawie Kierownik: Prof. dr S. Jablonska. (GONORRHEA ther)

ORLOWSKI, Witold J.; ZWIERZCHOWSKI, Ryszard; STEPNIAK, Roman

A case of Ascher's syndrome. Pol. tyg. lek. 18 no.22:795-797
27 My \*63.

1. Z Oddzialu Okulistycznego; ordynator: doc. dr med. W.J.
Orlowski, z Oddzialu Laryngologicznego; ordynator: dr R.
Zwierzchowski i z Oddzialu Dermatologicznego w Warszawie;
ordynator: dr M. Zajfen.
(EYELIDS) (GOITER) (LIPS) (DISEASES)

ACCESSION NR: AP5019800

PO/0084/65/000/007/0019/0020

AUTHOR: Sztajerwald, J. (Engineer); Baniukiewicz, E.; Stepniak, S.; Weglewski, J. (Engineers); Stanowski, Z. (Master engineer)

TITLE: Ionic fire prevention sensor

SOURCE: Przeglad pozarniczy, no. 7, 1965, 19-20

TOPIC TAGS: fire prevention, fire alarm, ionic fire sensor

ABSTRACT: The article describes an ionic sensor for detecting the outbreak of a fire for which a Polish patent (Patent No. 43 177 Class 74a, 30) was issued on Sept. 22, 1958. The owner of the patent is the Panstwowe Przedsiebiorstwo Poczta Polska, Telegraf i Telefon (Polish State Postal, Telegraph, and Telephone Service) in Warsaw. The sensor is activated during the very early stage of a fire by the presence of minimal quantitites of foreign matter in the air, such as smoke, dust, and city gas. When activated, the device immediately disconnects the electric power supply to the malfunctioning apparatus, thus preventing the outbreak of a fire. At the same time, the device can raise the alarm or start air ventilation to cool the defective apparatus. Fig. 1 of the Enclosure shows the schematic of the device, which consists of a diode sensor connected through three conductors (of any length) to a one-stage DC amplifier and the signalling circuit. The cathode

Card 1/3

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#### ACCESSION NR: AP5019800

of the diode sensor is a very thin platinum wire and the anode is made of plates or a spiral. The diode sensor is located in the air stream flowing from the apparatus under control. The cathode is heated to a certain fixed potential. Resistor  $R_2$  controls the device sensitivity. Any change in the cathode temperature (e.g., due to the burning of fine particles or some gases in the air stream) immediately changes the diode current and thus energizes the device. Orig. art. has: 1 figure.

ASSOCIATION: Panstwowe Przedsiebiorstwo Poczta Polska, Telegraf i Telefon, Warsaw (Polish State Postal, Telegraph, and Telephone Service)

SUBMITTED: 22Sep58

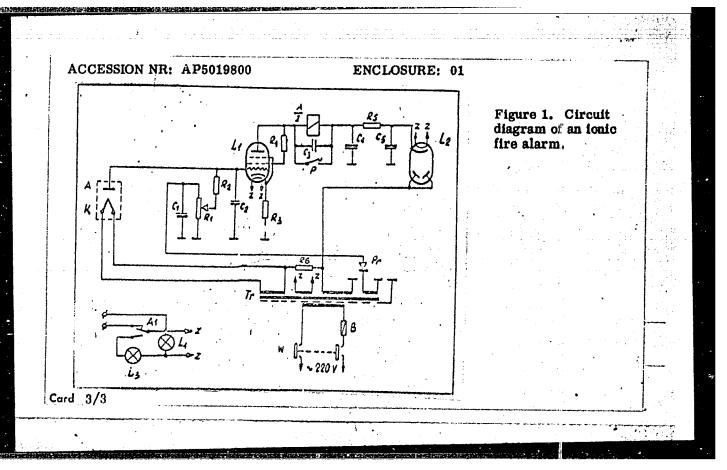
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Card 2/3



STEPNIAK, Stanislaw, inz.

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Design problems of drop weight installations. Przegl mech 23 no. 2: 50-53 Ja 164.

1. Starszy projektant, Biuro Projektowo-Konstrucyjne, Przedsie biorstwo: Projektowania i Dostaw Inwestycyjnych, Wroclaw.

STEPNIAK, Stanislaw, inz.

Design problems of pile driving installations. Przegl mech 23 no. 3:82-84 10 F '64.

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1. Starszy projektant, Biuro Projektowo-Konstrukcyjne, Przedsiebiorstwo Projektwania i Dostaw Inwestycyjnych, Wroclaw.

STEFNIAK, Stardslaw

Coupler hoisting winches and drop work drame. Froblemy project massyn 12 no.12:376-380 D 164.

是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

1. Capital Investment Designing and Supplying Agency, Wrookse.

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CZECHOSLOVAKIA/Radio Physics - Reception of Radio Waves.

Ι

: Ref Zhur Fizika, No 8, 1959, 13691 Abs Jour

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Author

: Hosek, J., Stepnicka, B.

Inst

Title

: Microwave Frequency Discriminators.

Oric Pub

: Slaboproudy obzar, 1958, 19, No 11, 737-745

Abstract

: A survey is made of microwave discriminators, used in frequency-stabilization circuits. The Pound discriminator and the discriminator with through resonator are described. A theoretical design is proposed for a discriminator operating in the  $\text{TE}_{iji}$  node. The results of the calculation are compared with experiment. In conclusion, a summary table is given that lists the principal para-

meters of various discriminators.

Card 1/1

Cavity resonator with frequency control

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rite in the resonator cavity. The influence of the material and of the geometrical relations of the resonator walls is examined. The characteristics of the system and the diagrams of the fields are reproduced and the structure of the resonator (consisting of framework, ferrite, coil and permanent magnet) is described. The parameters of a real system used for stabilizing the microwave klystron frequency are given. When the volume of the cavity resonator changes, the geometrical relations must be constant. The possibility of using cavity resonators for other frequency ranges with different ferrito types is examined.

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[Abstracter's note: Complete translation]

Card 2/2

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#### STEFUICKA, H.

The demineralization of water. p. 100.

POCZMIKI BLY SEMANUEZ. (Polskie Towarzystwo Flebourawsze) Marszawa, Poland. Vol. 8, no. 1, 1959.

Mont by List of East European Accessions (EPAI) LC, Not. 9, no. 1, Jan. 1960.

Uncl.

KUBANT, J.; STEPHICKOVA, Z.

Polarographic determination of the content of archatic hydrocarbons in coke oven gas. Paliva 41 no.8:253-257 kg 161.

1. Ustav pro vyzkum paliv.

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Scurre:

Warsaw, Farmacja Polska, Vol XVII, No 15-16, 25 Aug 61,

pp 323-326

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"Old Pharmaceutical Houses in Poland/"

Stepniewski, L.		ŧ*
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	•	
	• Profic J., Stepniewski L., Szmidtgal E., Zyss B. The Technology  • Profic J., Stepniewski L., Szmidtgal E., Zyss B. The Technology  • Fatz. Part I.  "Technologia tłuszczów". Cz. 1. Warszawa, 1954, Wyd. Przem. Lek.  • Spoż., 160, 279 pp., 102 figs., 19 tabs.  Deals with the chemistry of fats. The first part contains sections  relating to: general information; production of animal and fish fats, and waxes; treatment of oleaginous seed; purification and refining of fats, and hardening of fats.	4
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S/081/62/000/013/051/054 B160/B101

Sikorski, Bronislaw, Stepniewski, Ludwik, Grochowski, AUTHORS:

Mieczys/aw, Świętorzecki, Karol

Method of producing a fire-resistant composition for coating

TITLE:

Referativnyy zhurnal. Khimiya, no. 13, 1962, 641, abstract

13P274 (Polish patent 42701, January 15, 1960) PERIODICAL:

TEXT: Two different kinds of condensation thermosetting resins (I and II) are mixed with a fire-resistant salt and a low-temperature hardening catalyst. Resin I is prepared by the solution of 100 parts by weight of urea in 260 parts by weight of 37% CH20 followed by thorough mixing and

condensation. The reaction is initiated by atmospheric oxygen and  $\frac{1}{0}$ s attended by the evolution of heat. The temperature is raised to 90°C and held there for three hours (pH 5.2-5.5), after which 1 part by weight of novolak dissolved in CH\_OH is added to stop the reaction. The resulting

resin is cooled, dried at 110°C and ground to a powder. Resin II is Card 1/2

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653220018-3"

STEPNIEWSKI, Marian

Scientific Session of the Japanese Mineralogical Association. Przegl geol 10 no.10:559 0 162.

STEPNIEWSKI, Marian

Remarks on kaolinite from Zarowo in Upper Silesia. Kwartalnik geol 6 no.4:739 162.

1. Zaklad Geochemii, Instytut Geologiczny, Warszawa.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220018-3"

STEPHIEWSKI, Marian

Roentgenoscopic methods of quantitative determination of the mineral content. Kwartalnik geol 6 no.4:741 '62.

1. Zaklad Geochemii, Instytut Geologiczny, Warszawa.

#### STRPNIESKI, Merian

The State Geological Institute of Japan. Przegl geol 10 no.12:671-674 D 162.

l. Instytut Geologiczny, Warszawa.

#### STEPNIEWSKI, Marian

Organization of the geologic schooling system and geologic scientific research in Japan. Przegl geol 11 no.2:111-112 F '63.

1. Instytut Geologiczny, Warszawa.

Offinither, Marian

张·共元的农民政**的政府,但是在**的的民族政治的民族。1997年,并且在政策的国际政治的国际共和国的政治、1997年,1997年

A-ray methods of quantitative determination of the mineral composition of mixed material. Przegl geol 11 no.10:453-455 0163.

1. Zaklad Geochemii, Instytut Geologiczny, Warszawa.

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STEPNIEWSKI, Mieczyslaw, mgr inz.

THE PROPERTY OF THE PROPERTY O

Production of half-axial flow pumps in the Warsaw Pump Factory. Przegl mech 22 no.14:439-442 25 Jl 163.

1. Zastepca glownego konstruktora, Warszawska Fabryka Pomp, Warszawa.

Stepniewski, S. 677.474.772 : 621.852.1 Stepniewski S. Tentative Use of Polyamide Fibres in the Production of Driving Belts. "Próba zastosowania" włókien poliamidowych do produkcji pasów napędowych". Przemysł Włókienniczy. No. 2, 1953, pp. 43—45, 2 figs., Experimental use of polyamide yarn spun in the country (No. 2.7, 5 tabs. breaking length 29.8 km., average strength 11050 g., elongation 36 per cent) for making belts. The belts were produced on a ribbon loom and showed around 50 per cent greater tensile strength; when suitable pastes were used slip was about 40 per cent less that with leather belts. After some preliminary drawing, the polyamide belts do not draw further in the course of work in looms and they can, like leather belts, be connected one to another by sewing. Polyamide belts last as long as leather betts and can be made at one fifth of the cost of a leather belt of the same width.

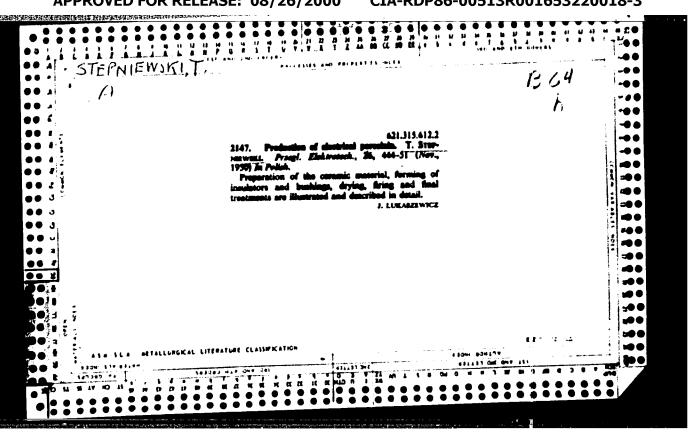
STEPNIEWSKI, S.; URBANSKI, S.; GAZEL, A.

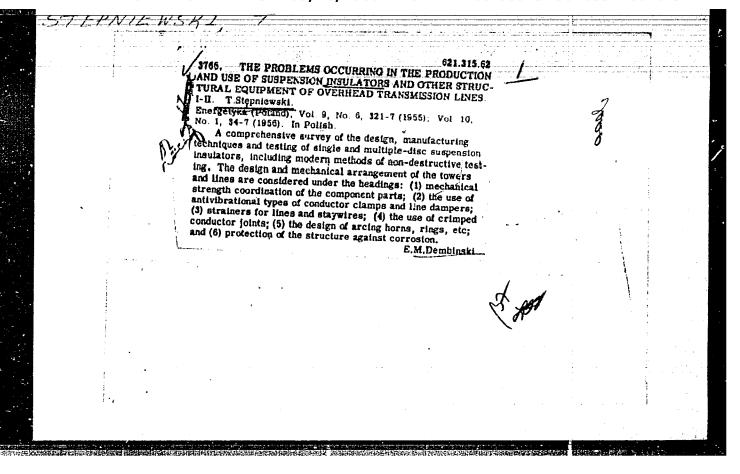
Cleaning cotton fabrics. Biuletyn Wlok. p. 2.

FRZFGLAD WLOKIENNICZY. (Stowarzyszenie Inzynierow i Technikow Przemyslu Wlokienniczego) Lodz, Poland. Vol. 12, no. 1, Jan. 1958.

Monthly List of East European Accessions (EEAI) LC. Vol. 8, no. 7, July 1959.

Uncl.





STEPNIEWSKI, T., doc., mgr.,imz

The scientific-technical conference "Insulators and fittings in high voltage networks." Przegl elektrotechn 37 no.11:465-467 '61.

## STEPNIEWSKI, T.

Scientific-technical conference on "Insulators and Accessories in High-Voltage Networks. Wiad elektrotechn 28 no.8:264 Ag '61.

#### STEPNIEWSKI, T.

Prevention of dermatologic and venereal diseases in 1951 according to the Six Year Plan in health services. Prsegl. derm., Warsz. 1 no.1:21-27 June 1951. (CIML 23:2)